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 EXT BYND 6 YRS BY 5 AME
 REASON 3 d (3)

PROGRESS REPORT
 FOR
 MONTH OF OCTOBER 1959

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JUST <u>22</u>	NEXT REV <u>2010</u>	AUTH: NR 78-2

BROADBAND ANTENNA, FILTER AND DETECTOR SYSTEMS

Purpose: To develop a system of antennas, filters and detectors for the 50 MC to 40,000 MC frequency range.

Personnel: Electrical Engineers:

25X1

Mathematician:

25X1

Status: Investigation of the filter network using the IBM 650 computer has continued. A tentative design for the 10,000 MC to 40,000 MC horn antenna with dielectric waveguide inserts is being investigated. Work on the 500 MC to 10,000 MC antenna has continued.

Future Plans: The filter design will continue, with a test model being constructed as early as possible.

Work will continue on the 500 MC to 10,000 MC and the 10,000 MC to 40,000 MC antennas.

Detector-crystal sensitivity measurements will be held up pending delivery of the customer furnished video amplifier.

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